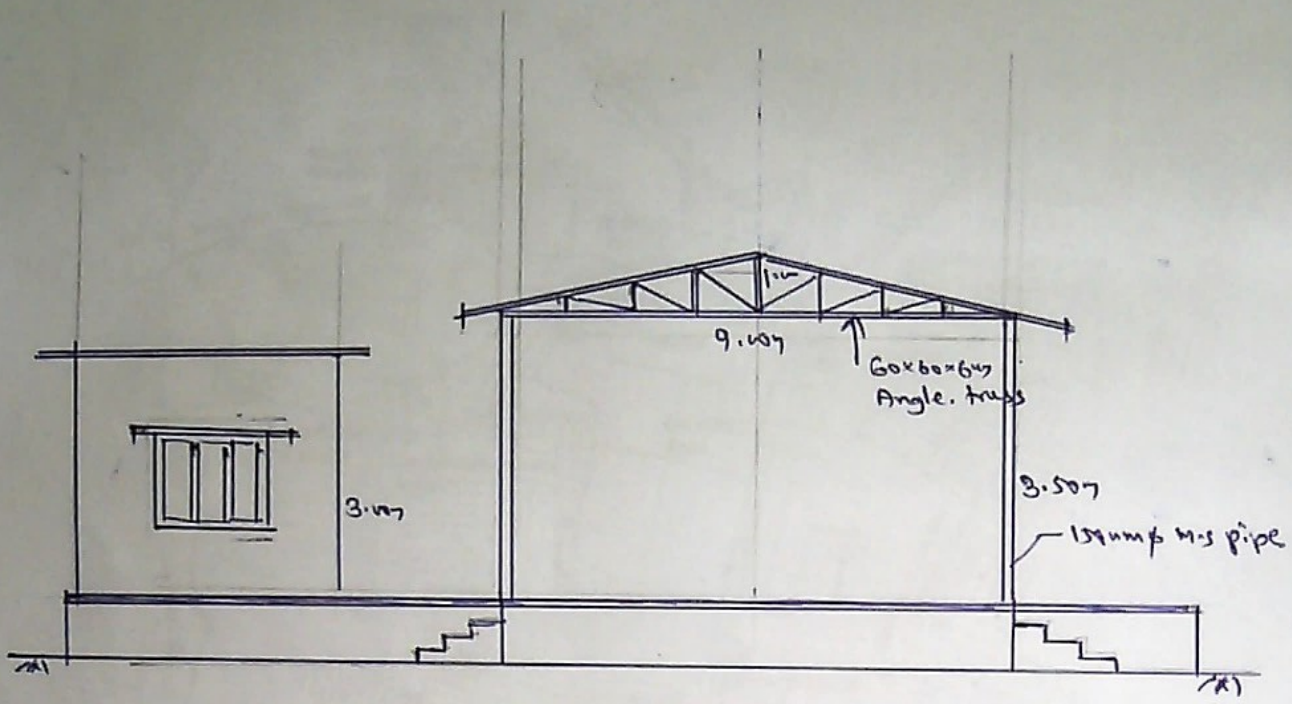
Name of work: Construction of Auditorium at Singapura Paradise in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division.



CROSS-SECTION A-A'

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

BRUHAT BANGALORE MAHANAGARA PALIKE

Vidyaranyapura ZONE

Name of Work: Estimate for Construction of Auditorum at Singapura Paradise in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							Estimate Cost Rs.		1000000.00
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 142 / Item No. 19.1, PWD SR 2016-17**	cum							
			1	22.00	4.60	0.20	20.24		
			1	22.00	1.00	0.60	13.20		
							33.44	194.64	**6509.00**
	Basic Rate	82.00							
	Area Weightage @ 8%	6.56							
	Total	**88.56**							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 Tonne / km = 38.08	38.08							
	Total	**194.64**							
2	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.3 of PWD SR 2016-17**	Cum							
	for columns		4	1.50	1.50	0.15	1.35		
			1	22.00	1.00	0.15	3.30		
	Basic Rate	4867.00							
	Area Weightage @ 8%	389.36					**4.65**	5256.36	**24442.00**
	Total	**5256.36**							
3	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6, stone** hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 23 / Item No. 5.6. PWD SR 2016-17**	Cum							
			1	22.00	0.60	0.60	7.92		
	Basic Rate	4187.00							
	Area Weightage @ 8%	334.96					**7.92**	4521.96	**35814.00**
	Total	**4521.96**							
4	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 23 / Item No. 5.9. PWD SR 2016-17**	Cum							
			1	22.00	0.45	0.45	4.46		
	Basic Rate	5005.00					**4.46**	5405.40	**24081.00**

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 8%	400.40							
	Total	**5405.40**							
	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills,** ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.6 PWD SR 2016-17**	Cum							
	for SWD Drain vent		1	22.00	0.45	0.10	0.99		
	Basic Rate	5441.00					**0.99**	5876.28	**5818.00**
	Area Weightage @ 8%	435.28							
	Total	**5876.28**							
6	KSRB 15.1.3 Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications **Page No. 113 / Item No. 15.3, PWD SR 2016-17**	Sqm							
	SWD		2	22.00		0.60	26.40		
	Basic Rate	98.00					**26.40**	105.84	**2794.00**
	Area Weightage @ 8%	7.84							
	Total	**105.84**							
7	Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing , main and secondary beams** with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) **Page No. 18, Item No. 4.48, PWD SR 2016-17**	Cum							
	column footing		4	1.20	1.20	1.20	6.91		
	Basic Rate	5879.00					**6.91**	6349.32	**43886.00**
	Area Weightage @ 8%	470.32							
	Total	**6349.32**							
8	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 25 / Item No. 5.26.2, PWD SR 2016-17**	Sqm							
	Backside Wall		1	15.25		4.50	68.63		
			2	6.00		1.00	12.00		
	Basic Rate	907.00					**80.63**	979.56	**78977.00**
	Area Weightage @ 8%	72.56							
	Total	**979.56**							

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
9	KSRB15-3.9 :Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 114 / Item No. 15.17, PWD SR 2016-17 (Outside Wall)**	Sqm							
	Backside Wall Plastering		2	15.25		4.50	137.25		
			2x2	6.00		1.00	24.00		
	Basic Rate	198.00					**161.25**	213.84	**34482.00**
	Area Weightage @ 8%	15.84							
	Total	**213.84**							
10	Providing and laying flooring using **prepolished, water cut/gang saw 19mm thick granite** laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete as per specifications. - **using silver grey granite / Multy Red / Ruby Red / Black / HassanGreen Granite of width not less than 1200mm (P.No.107, I.No.14.47.1 of PWD SR 2016-17)**	Sqm							
	Flooring		1	15.25	6.00		91.50		
			1	15.20		0.10	1.52		
	SSM Wall		2	6.00		0.10	1.20		
			1	22.00	0.50		11.00		
	Basic Rate	2619.00					**105.22**	2828.52	**297617.00**
	Area Weightage @ 8%	209.52							
	Total	**2828.52**							
11	KSRRB M2100-9. Sand Filling in Foundation Trenches as per Drawing & Technical SpecificationMORTH Specification No. 304 **Item No. 27.17 Page No. 217, PWD SR 2016-17**	Cum							
			1	22.00	4.35	0.25	23.93		
	Basic Rate	2757.00					**23.93**	2977.56	**71238.00**
	Area Weightage @ 8%	220.56							
	Total	**2977.56**							
12	Fabricating, supplying & erecting M.S. angular Truss of span upto 10m. The bottom & top member is provided with 50x50x6mm double equal angles, welded back to back and in between top & bottom line, in areas of mid section is provided with 50x50x6mm equal single angle for vertical and inclined members and at supporting ends 40x40x5mm single angle is provided. All the members are welded together with 6mm gusset plate as per Drawing No.CBS/ SD/K-Mantap/9/MND/97. The entire truss is anchored in RCC column by using 4 Nos. of M.S. anchor bolts at each support, with 10mm thick base plate and shoe plate.The work includes cutting, straightening, placing in position of M.S angle and wleding wherever necessary, and applying one coat of red oxide primer coat to all the members including cost of all materials, labour charges, & hire charges of machineries for cutting, welding, grinding & erection equipments, etc., complete as per specification. **(Page No. 40 Item No. 7.30 of CSR 2016-17).**	Kgs							
	150 mm dia pipes		4	4.50		18.00			
					wt	19.20	345.60		
	trusses Tie Beam		3	9.00		27.00			
	Rafters		6	6.00		36.00			
	Vertical Supports		3	1.00		3.00			

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			6	0.80		4.80			
			6	0.75		4.50			
			6	0.60		3.60			
			6	0.30		1.80			
	Incland supports		6	1.00		6.00			
			6	0.80		4.80			
			6	0.60		3.60			
			6	0.60		3.60			
	Perlins		12	6.00		72.00			
						170.70			
					wt	5.40	921.78		
	add 10 % for gusset plates etc						**1267.38**		
							126.74		
							1394.12		
	Basic Rate	117.00				**say**	1400.00	126.36	**176904.00**
	Area Weightage @ 8%	9.36							
	Total	**126.36**							
13	Providing, fabricating and fixing profiled **poly erethane insulated roof** of 1,06m width and 7,60m length sheets roof having external sheet of 0.5mm steel with powder coated finish, bottom sheet of 0.4mm steel with powder coated finish. The roofing system shall have water proof over lapping arrangement at the inter section of two sheets the fasting shall be of self tapping screws dia 6.3mm or required length with PVC head along with washer pre-painted aluminium cap unit with build in seal arrangements. The entire roof shall be firmly fasteed to the existing frame **Page No. 308, Item No. 38.43, PWD SR 2016-17**	Sqm							
			2	6.00	6.00		72.00		
			1x0.5	9.00	2.00		9.00		
	Basic Rate	2250.00					**81.00**	2430.00	**196830.00**
	Area Weightage @ 8%	180.00							
	Total	**2430.00**							
	Sub Total								
	Miscellaneous and unforeseen charges								**999392.00**
								L.s	**608.00**
	Rupees Ten Lakh(s) Only						**Total**		**1000000.00**

CERTIFICATE :

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2016-17
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura sub Division
BBMP, Bangalore

Executive Engineer 6/07
Byatarayanpura Division
BBMP, Bangalore

ADMINISTRATIVE APPROVAL

Accorded For Rs. 10.00 Lakhs.
Head of A/c. P1771.
Div. Ref. No. 35/1920 Date 6-7-2019

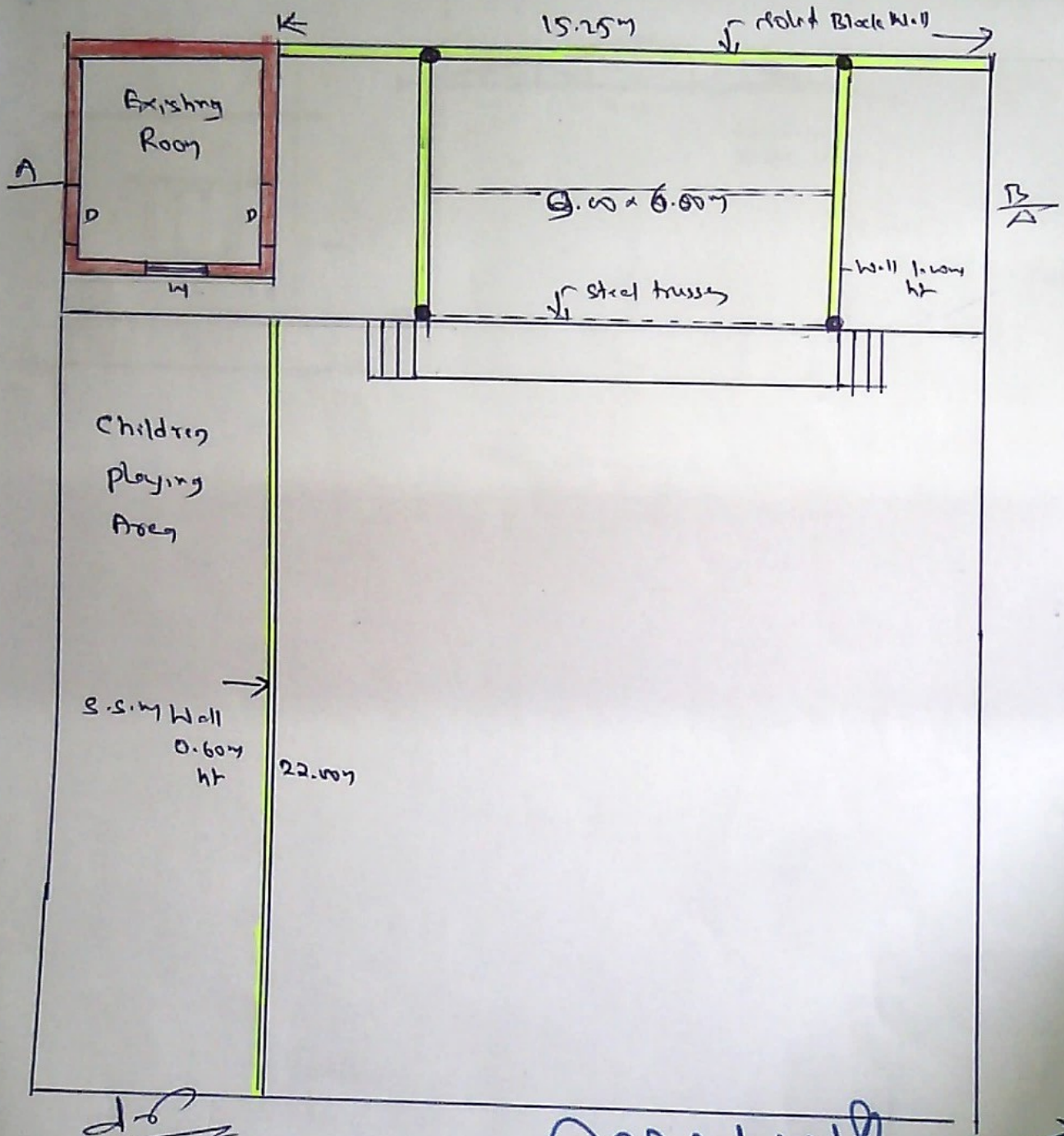
AE 6/07 EE(BTP) 6/07

TECHNICAL SANCTION

Accorded For Rs. 10.00 Lakhs
Head of A/c. P1771
Div. Ref. No. 61/1920 Date 6-7-2019

AE 6/07 EE(BTP) 6/07

Name of work: Construction of Auditorium at Singapura Paradise in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division.



Assistant Engineer
Ward No. 11

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Vidyaranyapura Sub Division